

# Panasonic

Colour Television **TX-3370**

## Operating Instructions

Please read these instructions completely before operating this set.

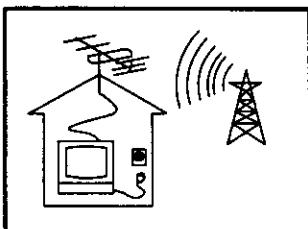
TQB620634

# Dear Panasonic Customer

Welcome to the Panasonic family of customers.  
We hope that you will have many years of enjoyment from your new colour television set.

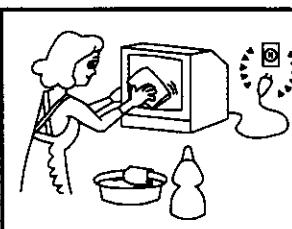
## Warning and Cautions

### Power Source and TV System

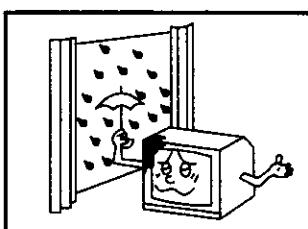


This TV set can be operated on AC 230 V, 50 Hz.  
It is designed exclusively for broadcast systems PAL B & G.

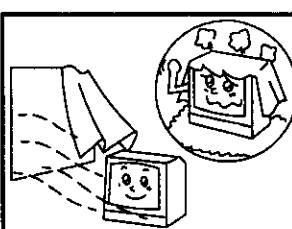
### Cabinet and Picture Tube Care



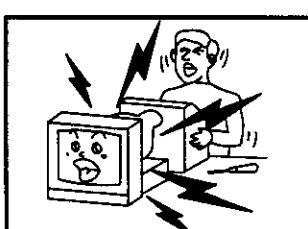
The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.



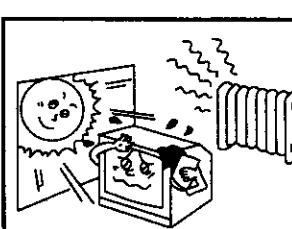
To prevent damage which may result in fire or electrical shock hazard, do not expose the TV set to rain or excessive moisture.



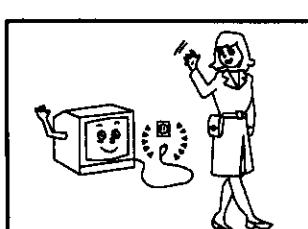
Adequate ventilation is essential to prevent failure of electrical components.



**High Voltage:**  
Do not remove the rear cover as live parts are accessible when the rear cover is removed.



Avoid exposing the TV set to direct sunlight and other sources of heat.



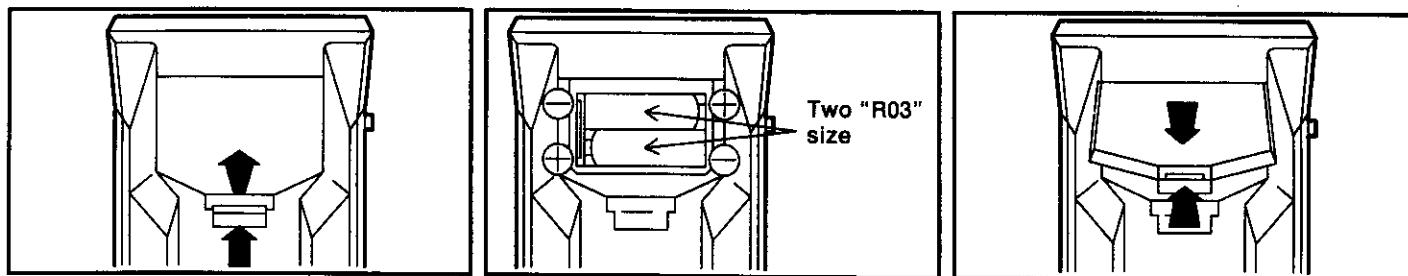
Remove the plug from the wall outlet ( Power point ) when the TV set is not used for a prolonged period of time.

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# Battery Installation and Replacement (Infrared Remote Controller)

Batteries : Use two "R03" size dry cells. ( Supplied )



1. Open the cover.  
(Push down stopper and  
remove the cover.)

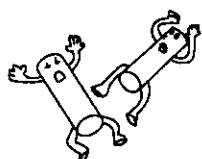
2. Replace the batteries.  
(Insert the batteries with the  
correct polarity as indicated by  
the (+) and (-) symbols.)

3. Replace the cover.

## Battery precautions

The incorrect use of batteries can cause electrolyte leakage which will corrode the remote control transmitter or cause the batteries to burst. The following precautions must be observed carefully.

Old Batteries



New Batteries

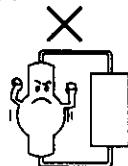


Replace both batteries at the same time.  
Dispose of them immediately.



Don't mix battery types  
(alkaline with carbon zinc, etc.).

Don't



Recharge



Short-circuit



Disassemble



Fire

Heat or Burn

## Notes:

1. The remote control transmitter should be placed to avoid direct sunlight or heat.
2. Direct sunlight or intense light to the infrared Remote Control Sensor of the receiver may lead to malfunction of the remote control transmitter.
3. Pressing more than two buttons at a time, can lead to operating malfunction.

Do not use rechargeable ( Ni-Cd )batteries.

They are partially different in shape and performance and may fail to ensure the desired function.

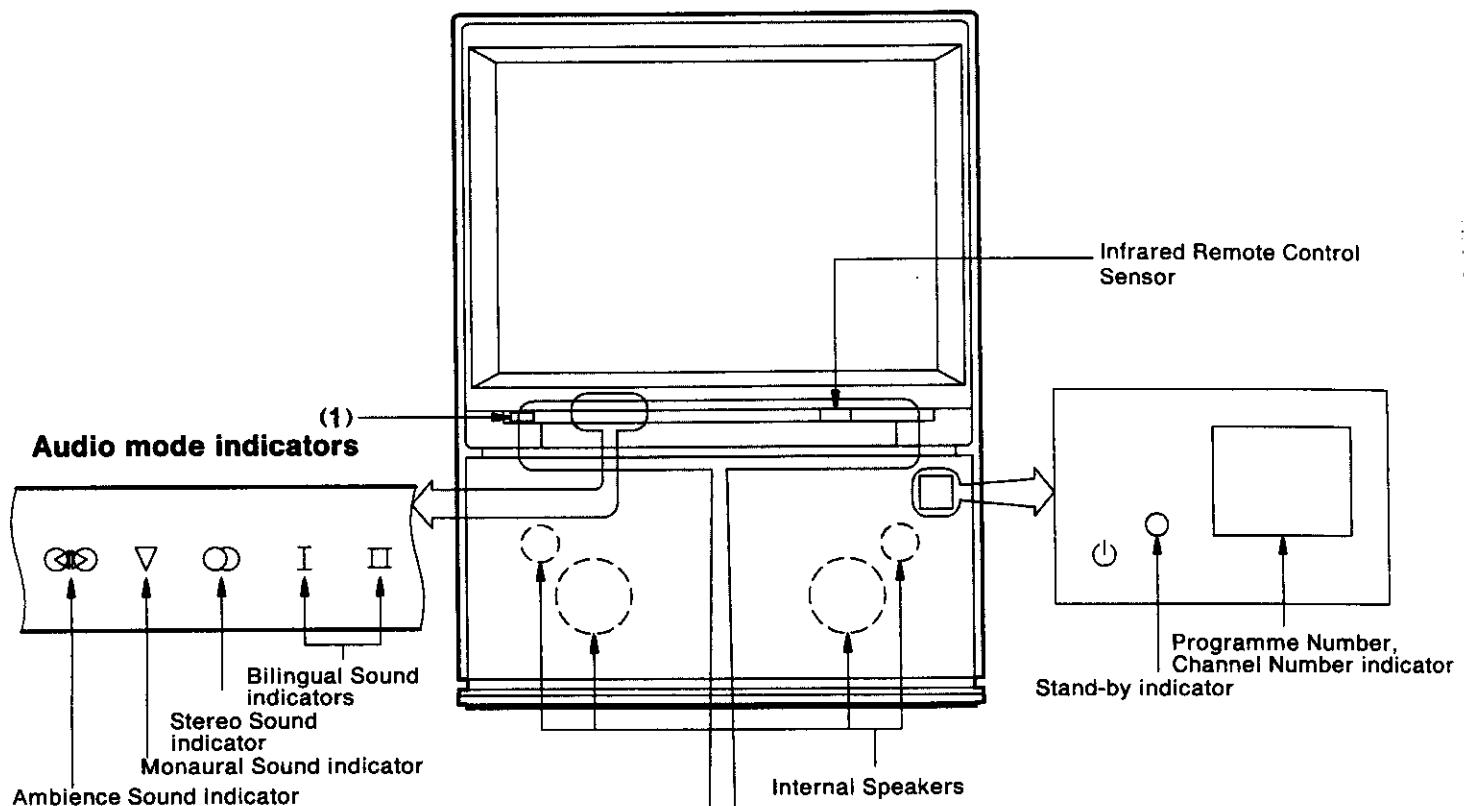
## IMPORTANT:

If power is removed from the set by any means other than switching off using the Power Switch it is recommended that before resuming viewing, the TV is first switched off and then on again using the Power switch to avoid any malfunction.

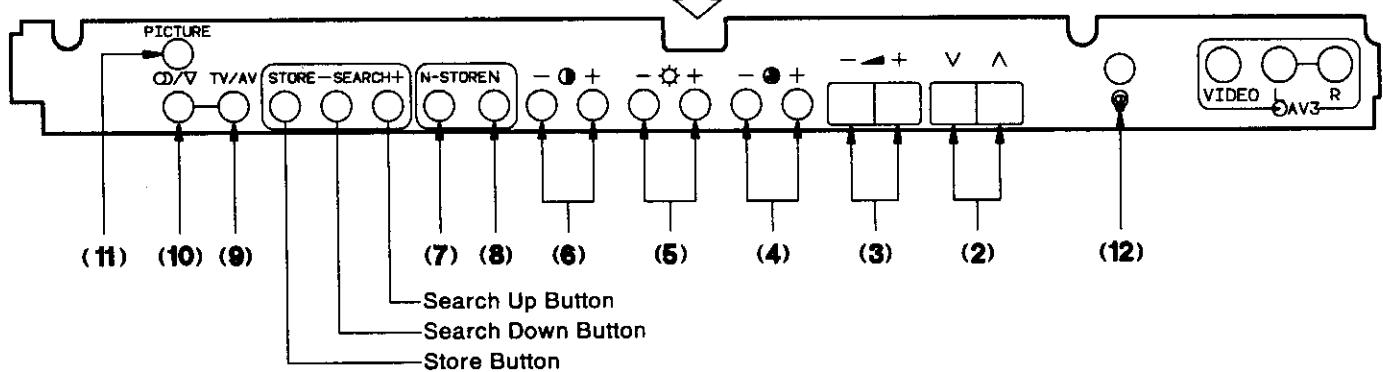
# Location of Controls (Front View and Control Panel)

(The numbers on this page are explained on pages 8 and 10.)

(Front View)



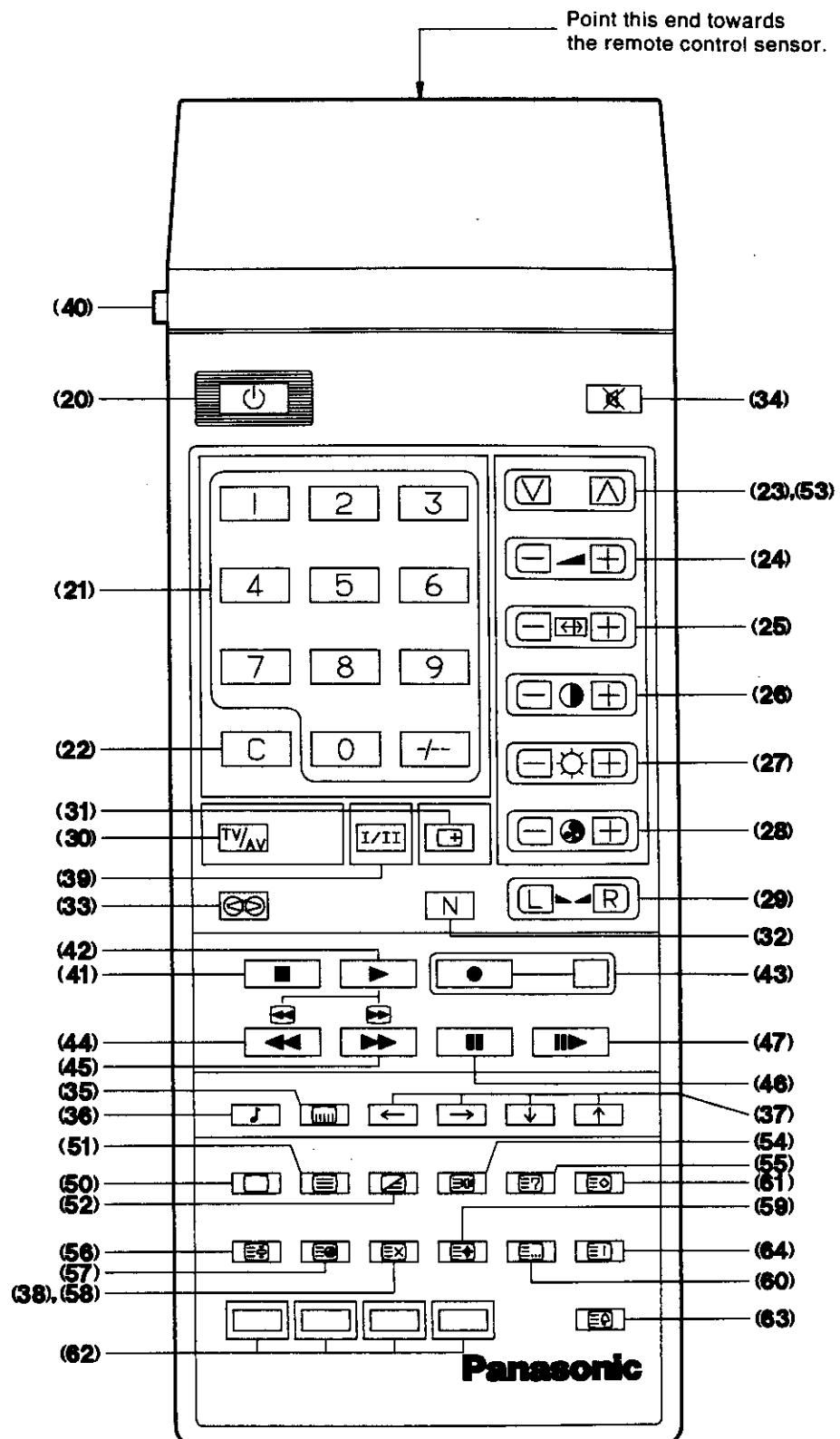
(Behind the door)



# Location of Controls (Infrared Remote Controller)

(The numbers on this page are explained on pages 11 to 23.)

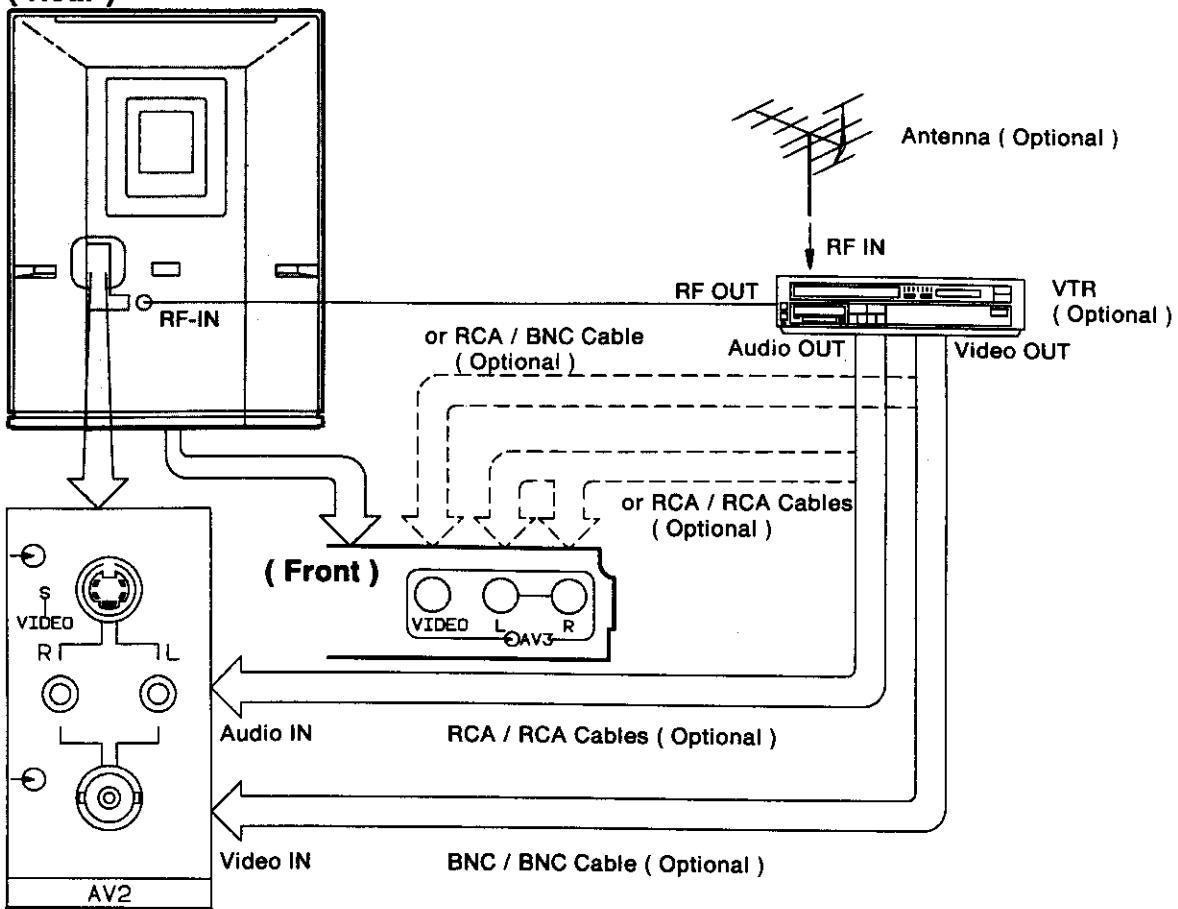
## (Remote Control Transmitter)



# Connections

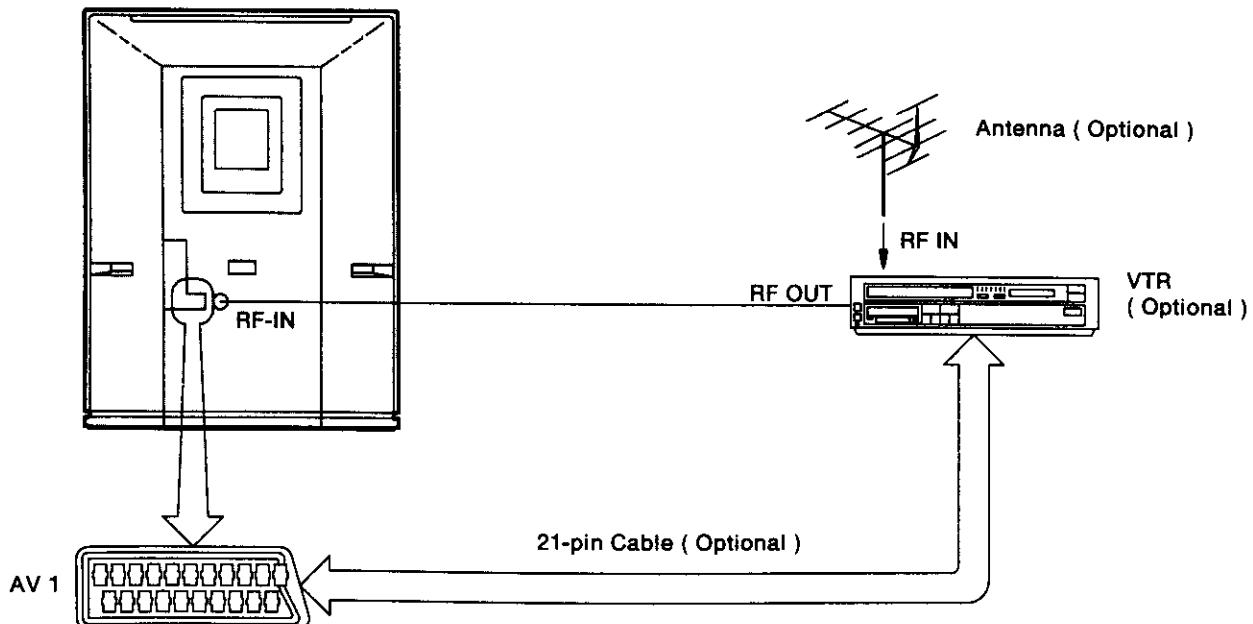
## (1) To VTR not equipped with 21-pin and S-VIDEO Sockets

( Rear )



## (2) To VTR equipped with 21-pin socket

( Rear )



### Note :

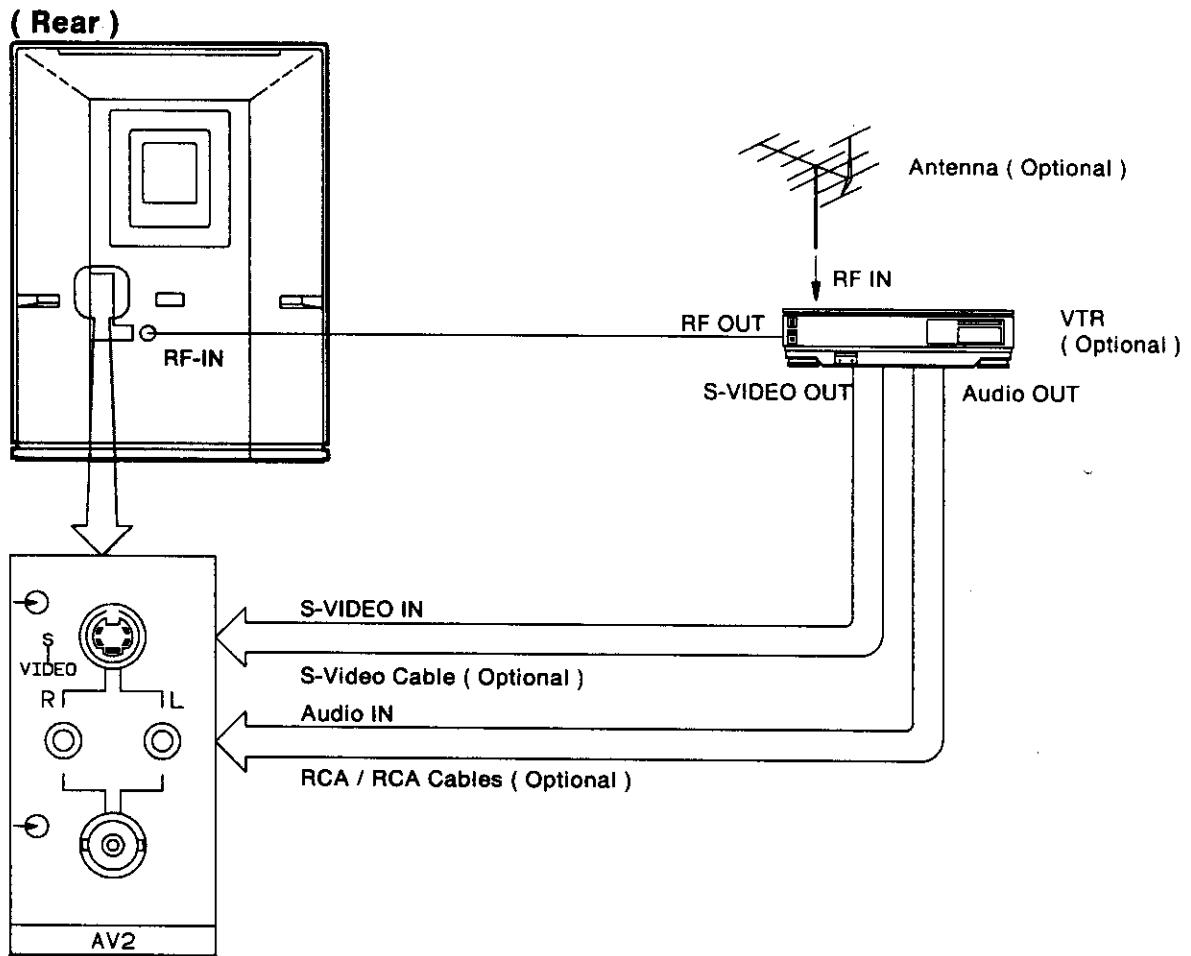
Consult your dealer for suitable cables.

Refer to operating instructions of VTR for details.

"On-screen" display signals are not output from the "AV1" socket to VTR.

# Connections

## (3) To VTR equipped with S-VIDEO Socket

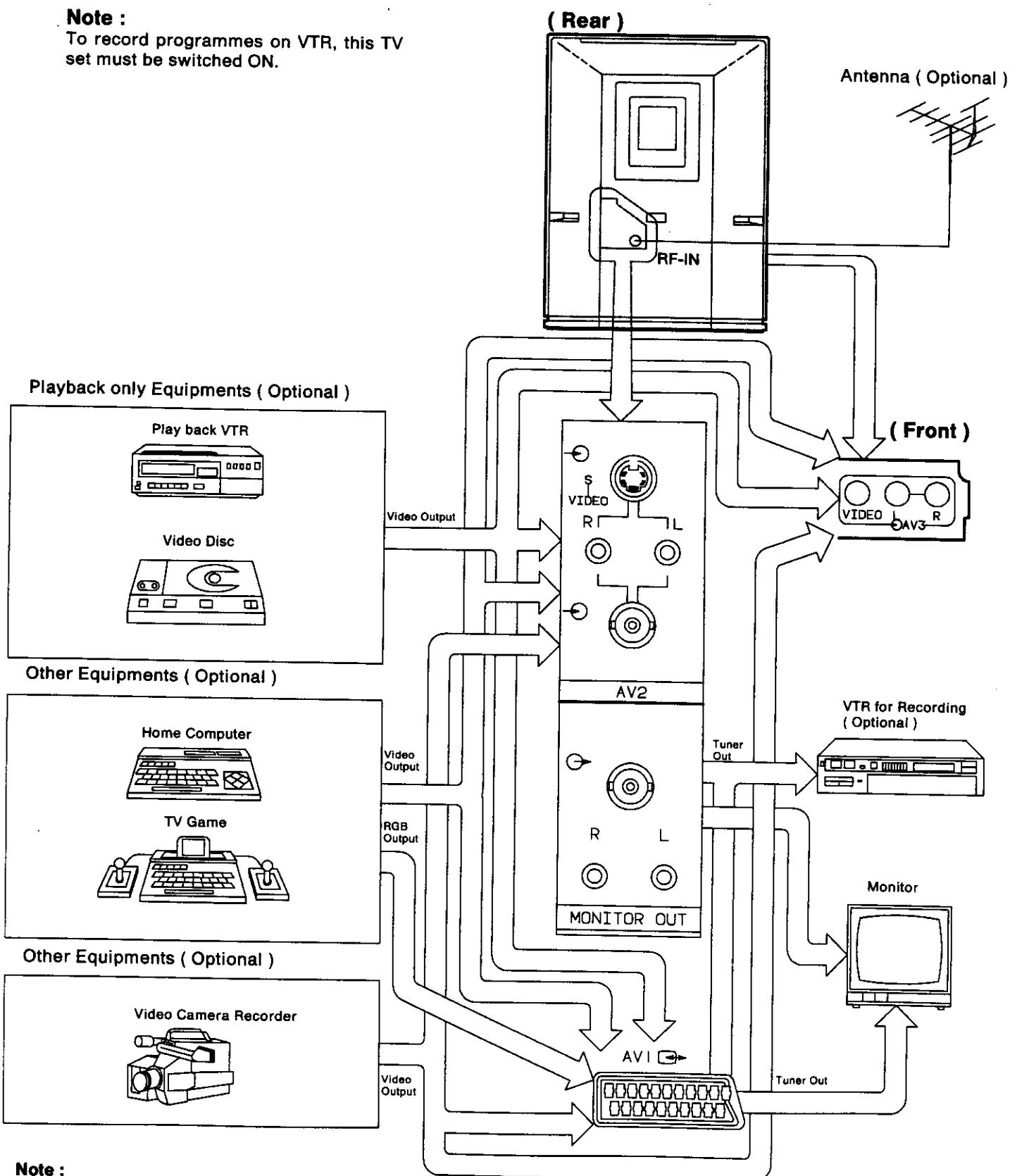


# Connections

## (4) To other optional equipment

### Note :

To record programmes on VTR, this TV set must be switched ON.



### Note :

- (1) Do not connect computer with TTL output ( 5 Volt ) to this TV set.
- (2) "Tuner Out" Terminals contain signals from the TV's tuner only.
- (3) "Monitor Out" Terminals contain signals which are on the TV screen at that time, e.g. TV programmes or signals from AV1, AV2 or AV3 input. ( Excluding RGB Input )

# Tuning Procedure ( By using Remote Controller or Controls Panel )

## Method 1 : ( If channel numbers of TV stations are known. )

### Step 1 :

Select your desired programme number by using the remote control keys.

1. When selecting one-digit Programme Nos. 1 to 9 :

e.g. To select Programme "3" :

a) Push the button "3" on the remote control transmitter.

2. When selecting 2-digit Programme Nos. 10 to 50 :

e.g. To select Programme "25" :

a) Push the "-/-" Button on the remote control transmitter first.

b) Push the "2" Button second.

c) Push the "5" Button third.

**Note :** This is the indicator for the programme number only, not the actual channel number.

### Step 2 :

Select the actual channel number which can be received in your area directly with the remote control.

- a) Push the "C" Button, Display panel will show "— —".

b) Enter desired channel number.

e.g. To tune to channel 36, push "3" and "6" Buttons consecutively.

### Step 3 :

Push "STORE" Button on the controls panel of TV set. ( Memory operation completed )

### Step 4 :

Repeat steps 1 through 3 to the remaining channels.

A maximum of 50 channels can be programmed.

## Method 2 : ( If channel numbers are not known. )

1. Select a desired programme number ( 1 through 50 ) indicated by the programme indicator by pushing the Programme Up "ʌ" or Down "∨" Button, or using Step 1 above.

2. Push the Search Up "+" or Down "-" Button.

When either of these buttons is pushed the programme indicator will show the channel number of the TV station last stored.

The TV is now searching for the next channel that has a TV station available.

3. The TV will automatically stop searching when a channel has been found.

If this is not the desired channel push either Search Up "+" or Down "-" Button to start search again.  
When the desired channel is found, push the "STORE" Button.

4. Repeat STEPS 1 through 3 for each programme number required.

### Note :

1. There are 50 programme numbers available. ( 1 through 50 )

2. If the "STORE" Button is not pushed, the programme will remain on the TV screen until either the Search Up "+" or Down "-" Button is pushed again, or TV set is switched off, or programme position is changed.

# General Operation of controls panel on TV Set

( Refer to diagram on page 3. )

## (1) Power Switch

Push this button to turn the receiver on.  
(Programme number indicator will light up.)  
Push again to turn off.

## (2) Programme Number Up and Down Buttons

Push the Programme Number Up "Λ" Button to select the higher programme numbers.  
Push the Programme Number Down "∨" Button to select the lower programme numbers.

## (3) Volume Up "+" and Down "—" Buttons

Push the Volume Up "+" Button to increase the sound level.  
Push the Volume Down "—" Button to decrease the sound level.

## (4) Colour Up and Down Buttons

Push the Colour Up "+" Button to increase the colour ( saturation ) level.  
Push the Colour Down "—" Button to decrease the colour ( saturation ) level.

## (5) Brightness Up and Down Buttons

Push the Brightness Up "+" Button to increase the brightness level.  
Push the Brightness Down "—" Button to decrease the brightness level.

## (6) Contrast Up and Down Buttons

Push the Contrast Up "+" Button to increase the contrast level.  
Push the Contrast Down "—" Button to decrease the contrast level.

## (7) N-Store Button

### ( Normalization Store Button )

By pushing the "N-STORE" Button on the TV set, you can memorised the following controls at desired levels : Volume, Contrast, Brightness, Colour, Balance.

#### Procedure

1. Set the above controls to the desired levels.
2. By pushing the "N-STORE" Button, all of the set levels of controls listed above will be memorised.

## (8) Normalization Button

By pushing this button, the levels of Volume, Contrast, Brightness, Colour, and Balance will be restored to the levels memorized in "N-STORE" Function.

Push the Normalization "N" Button in the Teletext mode, will change back to TV mode.

# General Operation of controls panel on TV Set

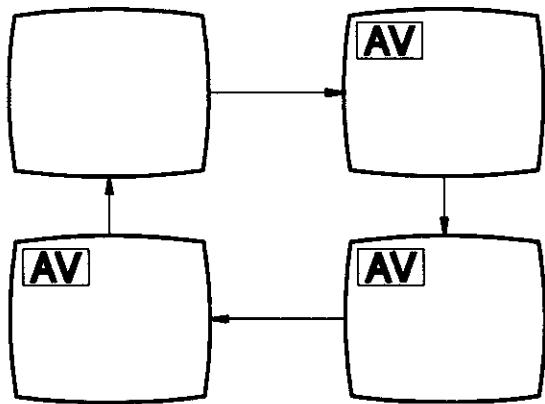
( Refer to diagram on page 3. )

## (9) TV / AV Selection Button

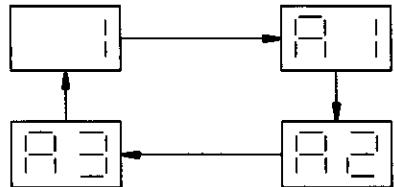
By pushing this button, you can sequentially select TV and three AV modes ( AV1, AV2, and AV3 ), as shown below.

"AV" will appear on the top left of the screen only if a video signal appears at the input terminals.

TV-Screen



## Programme Number Indicator



**Note :**

TV mode showing programme number "1" selected.

**Note :**

When NO A/V Signal is applied, the on-screen indicator ( AV ) may be unstable, after selecting AV mode ( AV1, AV2 and AV3 ).

However, this is not due to malfunction.

## (10) Stereo / Mono Selection Button

( AV mode only )

Normally, set the "Stereo / Mono Selection" Button to Stereo position and then confirm "Stereo Position" on the Audio mode indicators panel.

## (11) Picture Control

Turn clockwise or Anti-clockwise to Adjust picture sharpness.

## (12) Headphones ( 3 mm Stereo type )

When the Headphone plug is inserted into the Headphone socket, you can listen with the Headphones. ( Optional )

**Note :**

The internal and external speakers sound will be cut off while headphones are connected to this socket.

# Remote Control Operation for TV

( Refer to diagram on page 4. )

The Remote control can only be used when the "Power" Switch on TV set is in the ON position.

## (20) TV ON / OFF Button

Push this button to turn the TV set off.

( The Stand-by Indicator will light up. )

Push it again to turn the TV set on.

**Note :**

Do not leave the TV set in the stand-by condition for a long period of time.

It is better to switch it off when you are away for extended period of time.

## (21) Direct Programme Selection Buttons

1. One digit programme number

(Programme No.0-9)

e.g. Selecting programme "3"

a) Push the "3" Button.

2. Two digit programme number

(Programme No.10-50)

e.g. Selecting programme "23"

a) Push the "-/-" Button first.

b) Push the "2" Button second.

c) Push the "3" Button third.

## (22) Direct Channel Selection

By pushing this button, the actual channel number can be entered directly.

a) Push the "C" Button, Display panel will show "— —".

b) Enter desired channel number.

e.g. To tune to channel 36,

Push "3" and "6" Buttons consecutively.

**Note:**

The channel number indication changes to previously selected Programme number in a few seconds.

## (23) Programme Number Up and Down Buttons

Push the Programme Number Up "Λ" Button to select the higher programme numbers.

Push the Programme Number Down "∨" Button to select the lower programme numbers.

## (24) Volume Up "+" and Down "—" Buttons

Push the Volume Up "+" Button to increase the sound level.

Push the Volume Down "—" Button to decrease the sound level.

## (25) Fine Tuning button

Use this button to eliminate or minimize interference.

Detuned position can be memorized by pushing "Store" Button on the set.

## (26) Contrast Up and Down Buttons

Push the Contrast Up "+" Button to increase the contrast level.

Push the Contrast Down "—" Button to decrease the contrast level.

## (27) Brightness Up and Down Buttons

Push the Brightness Up "+" Button to increase the brightness level.

Push the Brightness Down "—" Button to decrease the brightness level.

## (28) Colour Up and Down Buttons

Push the Colour Up "+" Button to increase the colour ( saturation ) level.

Push the Colour Down "—" Button to decrease the colour ( saturation ) level.

## (29) Balance R and L Buttons

Push the Balance ( R ) to bias sound to the right hand side.

Push the Balance ( L ) to bias sound to the left hand side.

# Remote Control Operation for TV

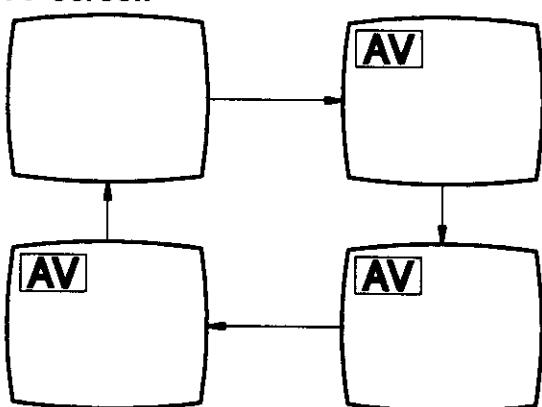
( Refer to diagram on page 4. )

## (30) TV / AV Selection Button

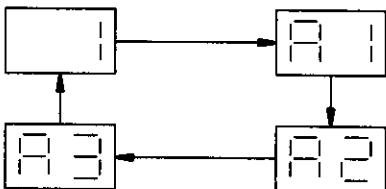
By pushing this button, you can sequentially select TV and three AV modes ( AV1, AV2, and AV3 ), as shown below.

"AV" will appear on the top left of the screen only if a video signal appears at the input terminals.

**TV-Screen**



**Programme Number Indicator**



**Note :**

TV mode showing programme number "1" selected.

**Note :**

When NO A/V Signal is applied, the on-screen indicator ( AV ) may be unstable, after selecting AV mode ( AV1, AV2 and AV3 ).

However, this is not due to malfunction.

## (31) Status Button

The "Status" Button can be pushed to activate the On-Screen display at any time.

a) On the TV screen, the programme number will be displayed on the top left hand side of the screen, the time at the top right hand side, selected Graphic Equalizer mode indicator on the bottom left hand side and the TELETEXT's name for that station, if broadcasted, at the bottom of the screen.

b) also, if the Alarm has been set then the time left will be displayed at the bottom center of the screen.

**Note:**

The time will only be displayed at the top right of the screen if the station is broadcasting teletext.

## (32) Normalization Button

By pushing this button, the levels of Volume, Contrast, Brightness, Colour, and Balance will be restored to the levels memorized in "N-STORE" Function.

Push the Normalization "N" Button in the Teletext mode, will change back to TV mode.

## (33) Ambience Button

Push the "Ambience" Button to obtain better acoustic sound from the speakers.

Ambience sound is dynamic sound system that give a feeling of greater acoustic presence.

## (34) Mute Button

Push the "Sound Mute" Button once to mute the sound.

To return the sound to its previous or normal level, perform one of the following operations.

1. Push the "Sound Mute" Button again.
2. Push the "Power" Switch to turn the TV off and then switch on again.
3. Push the Volume Up "+" Button or the Volume Down "-" Button on the TV.
4. Push the "TV ON / OFF" Button on the remote controller to turn the TV to "STAND-BY", then turn the TV on again.
5. Push programme Up "▲" or Down "▼" or any one of channel selection buttons.
6. Push the Normalization "N" Button to return the sound to the normalized level.

# Remote Control Operation for TV

( Refer to diagram on page 4. )

## (35) Graphic Equalizer Operation Button

You can memorize 7 frequency bands in each of 2 modes. You can adjust the frequency characteristics over a range of  $\pm 10$  dB in 2 dB steps.

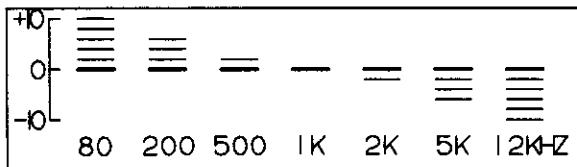
### Procedure

1. Push the "Graphic Equalizer" Button ( 35 ).  
( The graphic equalizer level indicator will be displayed on the screen. )
2. Push the "mode select" Button ( 36 ) and select one of the two modes. ( See below )
3. Push the "—" or "--" Button and select the desired frequency.  
( The selected frequency will be indicate in green. )
4. Push the "↑" or "↓" Button and set the level of the selected frequency.
5. Push the "Graphic Equalizer" Button ( 35 ) again.  
The graphic equalizer level indicator will go out.

## (36) Equalizer Mode Selection Button

- (1) Push the "mode select" Button ( 36 ) if you wish to change the present mode while viewing a normal TV programme.  
( The mode indicator will be displayed on the bottom left of the screen, and a few seconds later it will automatically go out. )
- (2) The 2 modes are represented by indicators "♪" and "♫", for use as a guide when setting equalization levels.  
e.g.  
♪ ....For music programmes  
♫ ....For speech programmes

- (3) The 7 frequency Bands are :



## (37) Equalizer frequencies Shift / Set Buttons

[ ] .... Push to select frequency.

[ ] .... Push to set levels.

## (38) Display Cancel Button

Normally, in TV mode, when Volume, Contrast, Colour, Brightness, and Balance Buttons are pushed, each function level is colour displayed at the bottom of the screen.

When this colour display is to be turned OFF, push "Display Cancel" Button.

### Colour Bar Cancel Operation

#### Step 1 :

Push Display Cancel button : a Black bar will appear at the bottom of the screen.

#### Step 2 :

The above operation will cancel each function level display and colour bar display.

Push "Display Cancel" Button again.  
Red Bar will be displayed.

# NICAM System

( Refer to diagram on pages 3 and 4. )

To receive NICAM broadcasts, the TX-3370ZR incorporates a NICAM decoder.

When a stereo, dual-soundtrack or monaural NICAM programme is being received, the indicators light to inform you of the type of broadcasts.

## (39) Sound Channel Selection Button

Sound output can be selected by pushing "Sound channel Selection" Button on the Remote Control Transmitter.

**Note :**

If the stereo signal is weak or the receiving condition extremely poor, it is recommendable to switch to the "Mono" Mode.

### Independent Switching Operation of Receiving Signal

To carry out switching operation, use "Sound Channel Selection" Button of the Remote Control Transmitter. Sound will change as per the following with each press.

TYPE OF BROADCAST	SWITCHING OPERATION
REGULAR BROADCAST (STANDARD AUDIO)	STANDARD AUDIO
REGULAR+NICAM STEREO	STEREO → STANDARD AUDIO
REGULAR+NICAM MONO I	NICAM MONO I → STANDARD AUDIO
REGULAR+NICAM DUAL MONO	NICAM MONO I → NICAM MONO II → NICAM MONO I+II → STANDARD AUDIO

### Selection Mode & Receiving Signal Correlations

SELECTION MODE	TYPE OF BROADCAST			
	REGULAR BROADCAST	REGULAR+NICAM STEREO	REGULAR+NICAM MONO	REGULAR+NICAM DUAL MONO
REGULAR	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO
NICAM STEREO	STANDARD AUDIO	STEREO	NICAM MONO I	NICAM MONO I
NICAM MONO I	STANDARD AUDIO	STEREO	NICAM MONO I	NICAM MONO I
NICAM MONO II	STANDARD AUDIO	STEREO	NICAM MONO I	NICAM MONO II
NICAM MONO I+II	STANDARD AUDIO	STEREO	NICAM MONO I	NICAM MONO I+II

**Notes :**

1. When the power is set ON, the mode is pre-set at "NICAM MONO I / STEREO".
2. Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
3. When the receiving conditions deteriorate, listening will be easier if the STANDARD AUDIO Mode is set at "MONO" position.

# NICAM System

( Refer to diagram on pages 3 and 4. )

## Correlations between Receiving Signal, Selection Mode, Indication and Sound Out

TYPE OF BROADCAST	SELECTING MODE	INDICATION	SOUND OUT			
			SPEAKER		HEADPHONE	
			L-CH	R-CH	L-CH	R-CH
REGULAR BROADCAST (STANDARD AUDIO)	REGULAR	NO INDICATION	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO
REGULAR + NICAM STEREO	NICAM STEREO	○	STEREO L	STEREO R	STEREO L	STEREO R
	REGULAR	▽	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO
REGULAR + NICAM MONO I	NICAM MONO I	I	NICAM MONO I	NICAM MONO I	NICAM MONO I	NICAM MONO I
	REGULAR	▽	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO	STANDARD AUDIO
REGULAR + NICAM DUAL MONO	NICAM MONO I	I	NICAM MONO I	NICAM MONO I	NICAM MONO I	NICAM MONO I
	NICAM MONO II	II	NICAM MONO II	NICAM MONO II	NICAM MONO II	NICAM MONO II
	NICAM MONO I+II	I II	NICAM MONO I	NICAM MONO II	NICAM MONO I	NICAM MONO II
	REGULAR	▽	REGULAR	REGULAR	REGULAR	REGULAR

# Remote Control Operation for VTR

( Refer to diagram on page 4. )

## Note:

This infrared remote control is designed specifically to be used with selected Panasonic VTRs, consult your dealer for details.

Some model VTR's have different functions, so please refer to the individual instruction booklet to ensure compatibility when using this remote control with Panasonic VTRs or consult your dealer for details.

To gain access to the VTR functions on the remote control, the VTR select button must also be pressed in, in conjunction with the appropriate function required.

e.g.

To select Stop, push "VTR" select Button and the Stop button simultaneously.

## (40) VTR Select Button

Hold this button in while operating VTR functions.

## (41) Stop Button

Push this button to stop the tape.

## (42) Play Button

Push this button to playback the tape.

## (43) Rec ( Record ) Buttons

Recording is started by pushing these 2 buttons at the same time.

## (44) Rew ( Rewind ) / Review Button

Push this button to rewind the tape.

During the playback mode, holding this button down will allow you to view the picture in reverse rapidly. ( Review )

## (45) FF ( Fast Forward ) / Cue Button

Push this button to fast forward the tape.

During the playback mode, holding this button down will allow you to view the picture in the forward direction rapidly. ( Cue )

## (46) Pause / Still ( Button )

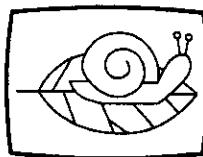
Push to stop the tape temporarily during playback. A still-picture will be shown.

## (47) Still Advance Button

While in the still mode, push this button to advance the picture one frame at a time.

# TELETEXT Operation ( By remote control only )

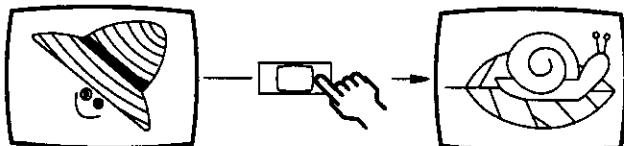
( Refer to diagram on page 4. )



This picture is used in this book to represent TV mode, all other pictures represent TELETEXT mode.

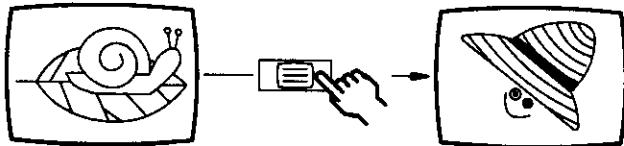
## (50) TV Button

When this button is pushed during TELETEXT reception, the TV switches to the TV programme you selected previously.



## (51) Text Button

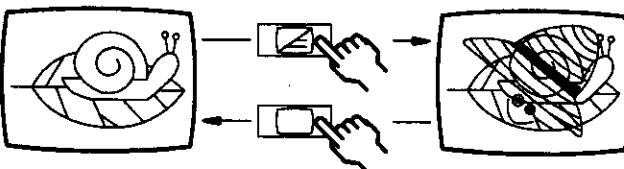
Pushing this button switches the TV from TV mode to TELETEXT mode.



## (52) Mix Button

Pushing this button superimposes TV picture on Text pattern for display.

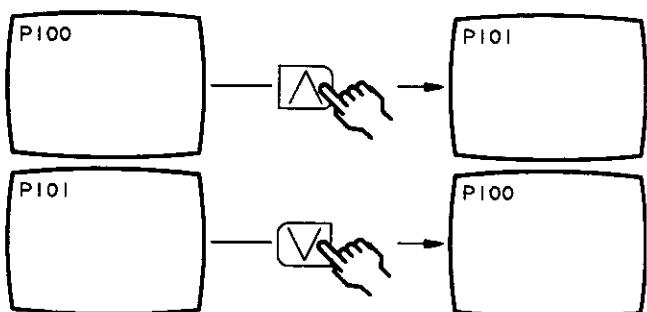
Unless the sound is muted, sound will be present in either Text, Mix or TV mode.



## (53) Page Up/Down Button

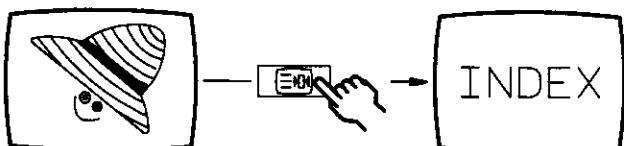
Push Page Number Up "▲" Button to step up to the next TELETEXT page.

Push Page Number Down "▼" Button to step down to the next TELETEXT page.



## (54) Reset Button

By pushing this button, the teletext page that you are presently viewing will be reset to the main index page in "F.TEXT" Mode, or the page whose page number is preset at the red position in List mode.



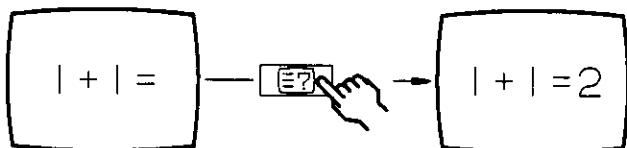
# TELETEXT Operation

( Refer to diagram on page 4. )

## (55) Reveal Button

When a quiz programme page is selected, a question appears on the CRT display screen.

If you wish to display the answer to the question, push this button.



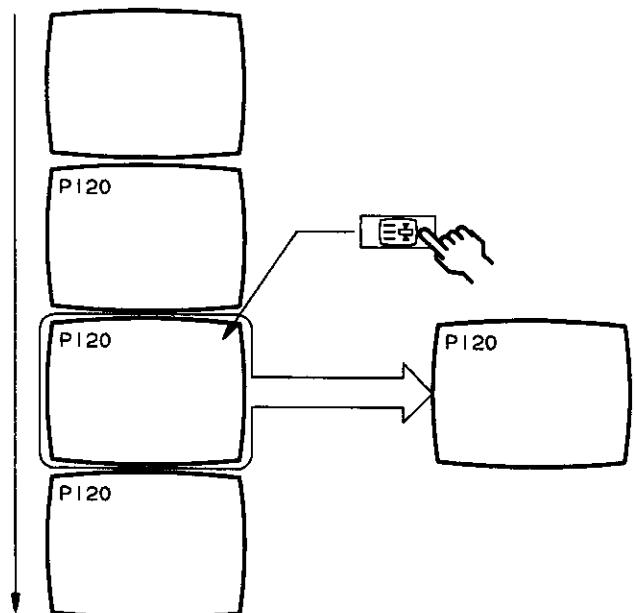
## (56) Hold Button

When TELETEXT information exceeds one page, the page will change automatically.

When you desire to hold the display of a particular page, push this button.

To cancel hold, push this button again.

( The "Hold" mark is displayed at the Top left corner of the screen. )



# TELETEXT Operation

( Refer to diagram on page 4. )

## (58) Display Cancel Button

While a selected page is being searched for, TV picture can be viewed by pushing this button. When that page is found, a message "  " will be displayed at the top left corner of the screen. Push "  " Button to view this teletext page.

e.g. To watch a newsflash page:

### Step 1 :

In Text mode, select a newsflash page.

### Step 2 :

Push "Display Cancel" Button.

The TV switches from the Text page screen to TV picture.

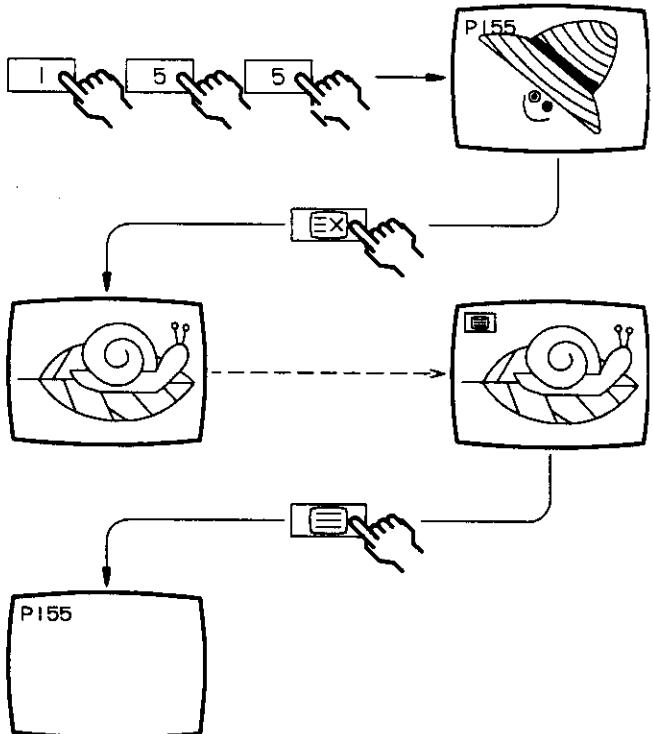
Every time an updated newsflash information is available, the newsflash information will be displayed at the Bottom of the screen.

### Note :

On screen indicators for volume, Brightness .... etc are cancelled in this mode. And programme number change can not be made.

### Step 3 :

Push "DISPLAY CANCEL" Button to remove the newsflash information from the screen.



## (59) Full / Top / Bottom Button ( F/T/B )

This function is used when characters on the TV screen are hard to read.

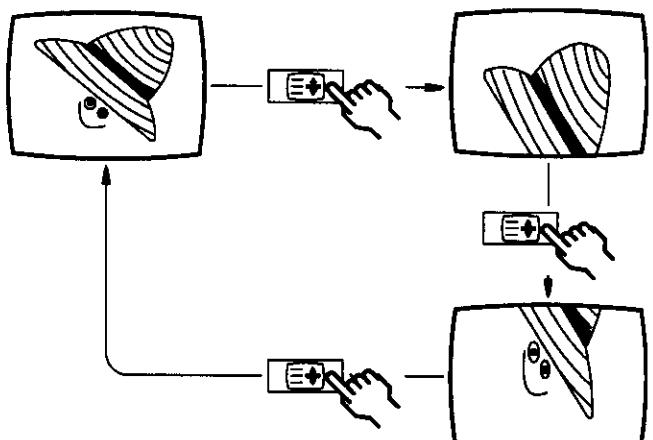
Pushing 1st time expands the upper half of the screen only.

Pushing 2nd time expands the lower half of the screen only.

Pushing 3rd time returns the display to its original size. ( Full page )

### Note :

When the next page is selected under the upper / lower display expanded conditions, the upper half of the next page is expanded for display.



# TELETEXT Operation ( F/TEXT and LIST modes )

( Refer to diagram on page 4. )

## (60) List / F.TEXT Button

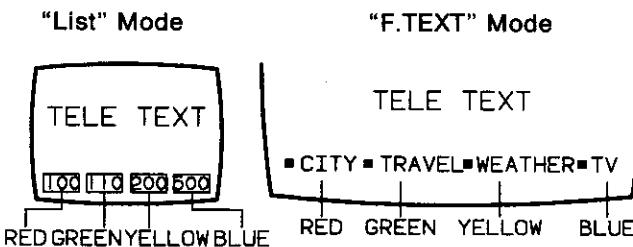
Push this button, in Text mode, to change from "F.TEXT" ( Fast Text ) to "List" Mode, and vice versa.

## (61) List Store Button

Use this button to store desired page numbers into memory, in "List" Mode.  
In each of programme position 1 to 10, 4 page numbers can be preset.

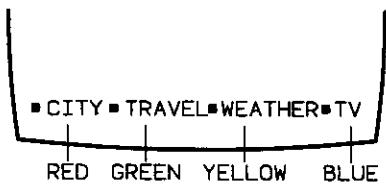
## (62) Red / Green / Yellow / Blue Buttons

These 4 buttons are colour-coded to correspond with the preset page numbers ( in "List" Mode ) or the subject's titles ( in "F.TEXT" Mode ) displayed at bottom of Teletext pages.



## How to Operate "Fast Text" ( F.TEXT ) Mode

In "F.TEXT" Mode, Select the desired teletext information by pushing one of the "colour-coded" Buttons on the remote controller which corresponds with the colored subject's title on the screen.



e.g.

Push "Yellow" Button on Remote Controller to view a "weather" page.

Follow similar procedure to access other pages of Teletext.

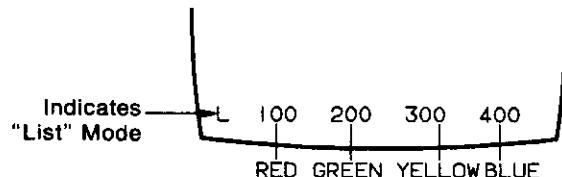
### Note :

Subject's titles and their sequence for access are set-up by TV broadcast channels, they are not user's definable with the Remote Controller.

It is a convenient way of accessing some Teletext pages without the need to enter page numbers.

## How to Operate "List" Mode

In "List" Mode the 4 subject's titles at the bottom of the screen change to 4 page numbers.



### Procedure :

- (1) To select the memory position, push one of the "colour-coded" Buttons on the Remote Controller, e.g. Red, Green, Yellow, or Blue Button.
- (2) Using buttons "0" to "9" on the Remote Controller, enter the page number of the desired text.
- (3) Repeat steps (1) and (2) for the remaining positions if required. Up to 4 page numbers can be preset for each programme position 1 to 10.
- (4) To store these page numbers into memories, push the "List Store" Button (61) and hold until the background of the 4 numbers change from Black to White.
- (5) Even time a "List" Mode is selected, these 4 page numbers will flash until all 4 pages have been found and stored into memories.

Any one of these 4 pages can be displayed instantly by pushing the corresponding "colour coded" Button on the Remote Controller.

### Note :

- (1) If a new page number is entered for viewing, it will not replace the previous number in the memory at that position unless the "List Store" Button is pushed and held down for a few seconds.

The 4 page numbers will be reset to the preset numbers when either the "Reset" Button (54) is pushed or programme position is changed, or mode changed to F.TEXT then return to "List" Mode again, or TV set is turned off.

- (2) The 4 preset page numbers can be changed when required, by following procedures 1 to 4 above.
- (3) Page numbers preset can only be performed on programme number 1 to 10.

# TELETEXT Operation

( Refer to diagram on page 4. )

## (63) Alarm Button

This function works as time alarm in TV or TELETEXT mode.

e.g.

Assume that the time now is 9:30 am, and that your desired programme, perhaps on another channel, will be broadcasted in 2 hours time (11:30 am). In this case, set the alarm to 2 hours.

When the preset time is reached, "PANASONIC ALARM" is displayed in the middle of the screen for approx. 20 seconds.

At that time, select your desired programme.

### Setting Method:

Present time 9:30 AM

Target time 11:30 AM

The target time is 2 hours from the present time.

Input the time difference between the present time and the target time.

### Step 1:

Push "Alarm" Button.

"PANASONIC ALARM" is displayed in the center of the screen, and "TXX:XX" is displayed at the bottom of the screen.

### Step 2:

Use buttons 0 to 9 of Remote Control (21) key for inputting the time difference.

Push "0" Button first, and then push "2", "0" and "0".

### Note:

It is necessary to enter two figures before and after the colon of "TXX:XX".

### Step 3:

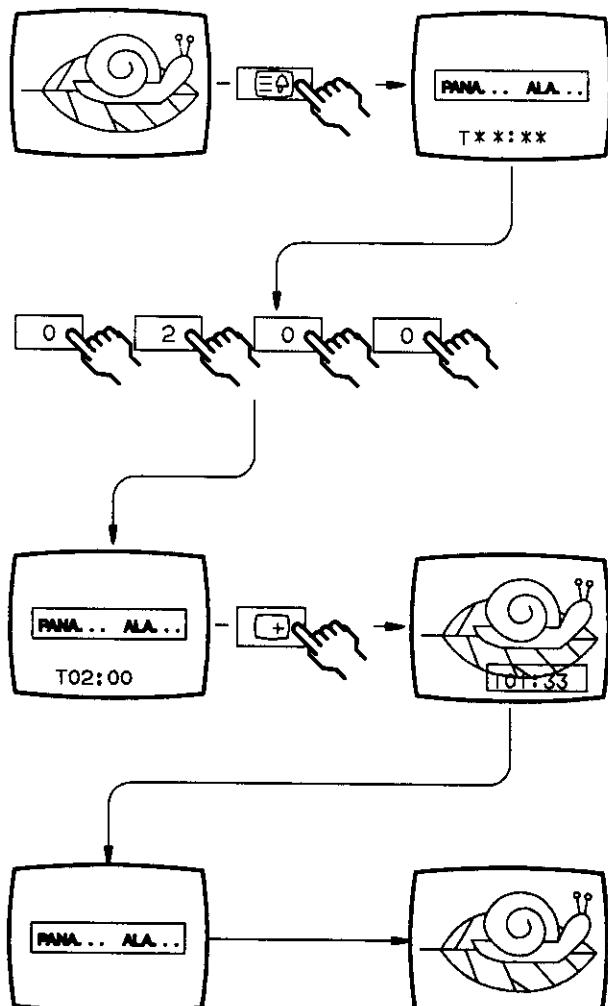
After key input, the screen changes to TV mode.

If you wish to know how long you have before the alarm page will appear, push "Status" Button.

The remaining setting time is displayed in the bottom center of the screen. To change the setting time, push "Alarm" Button again and enter the time in the same manner as in **Step 2**.

To cancel the setting time;

Push "Alarm" Button.



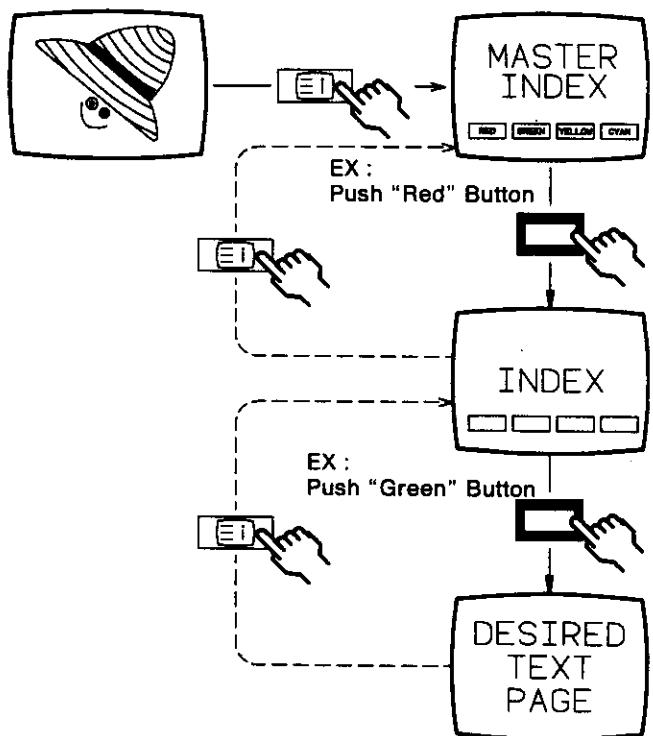
# TELETEXT Operation

( Refer to diagram on page 4. )

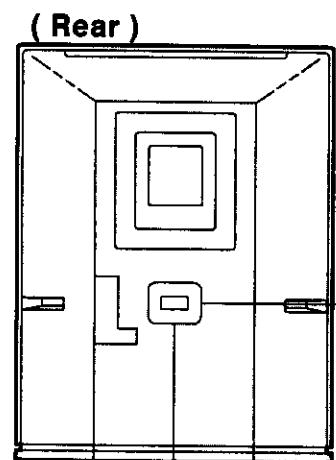
## (64) Index Button

Push this button, in "F.TEXT" Mode, to return to index page.

Depending on the way information is transmitted by each TV channel, this "INDEX" Button may need to be pushed more than once to return to the main index page.



## Connections ( External Speaker Terminals )

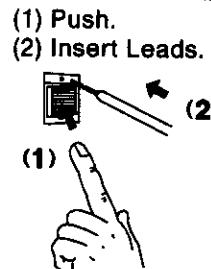
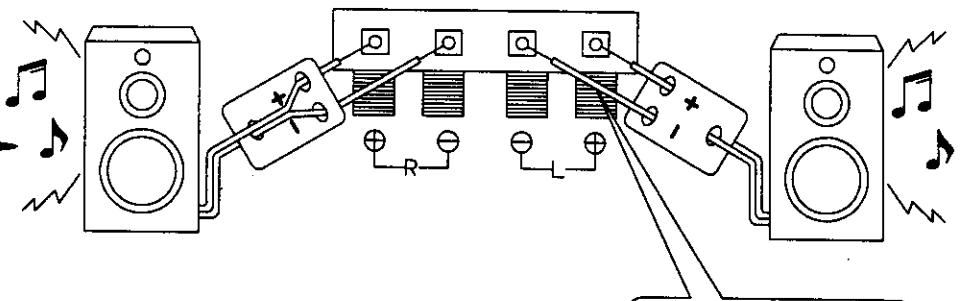


EXT. INT. Using the Internal Speakers

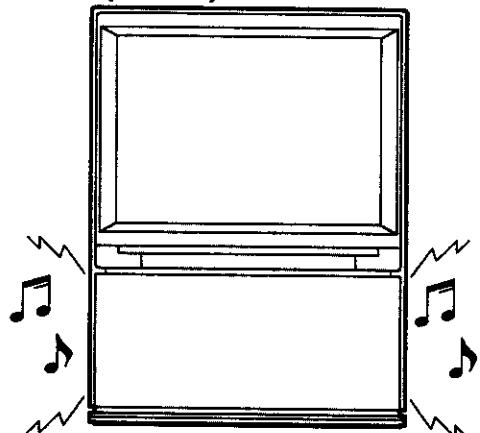
Using the External Speakers ( Optional )  
(4Ω ~ 8Ω impedance)

EXT. INT.

EXT. SP (4Ω ~ 8Ω)



( Front )



### Note:

- (1) If speakers cause disturbance, in picture purity, locate the speakers as far as possible from the TV set.
- (2) If speaker terminals are shorted, sound will be cut off.  
Turn the TV set off then turn on again to reset the protection circuit.

# Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	Sound	
		Antenna Location and / or Connection
		Antenna Direction and Location
		Electrical Appliances Cars / Motorcycles Fluorescent Lamps
		Volume  ( Check whether the mute function has been activated on the Remote Control. )
		Not plugged into AC outlet Not switched on Contrast and Brightness / Volume setting  ( Check by pushing the Power Switch or ( Stand-by ) Button on the Remote Control. )
		Colour Control

# Specifications

<b>Power Source :</b>	AC 230 V, 50 Hz
<b>Power Consumption :</b>	210 W ( Stand-by condition 6 W )
<b>Receiving System :</b>	CCIR : 625 Lines, PAL B & G
<b>Receiving Channels :</b>	VHF 1 - 11 UHF 21 - 69
<b>Tuning System :</b>	Frequency synthesized
<b>Picture Tube :</b>	33 inches ( 84 cm ) measured diagonally, 110° deflection
<b>Audio Output :</b>	Internal Speaker      2 x 20 W ( Music 10 % distortion ) Impedance 4 Ω External Speaker      2 x 20 W ( Music 10 % distortion ) Impedance 4 Ω
<b>Aerial Impedance :</b>	75 Ω Unbalanced coaxial
<b>Headphones :</b>	Impedance 8 Ω
<b>Video/Audio Terminals :</b>	AV1 IN                      Video ( 21 pin ) 1 Vp-p 75 Ω Audio ( 21 pin ) 0.67 Vrms, 10 KΩ AV1 OUT                      Video ( 21 pin ) 1 Vp-p 75 Ω Audio ( 21 pin ) 0.67 Vrms, ( 100 % modulation ) 1 KΩ AV2 IN                        Video ( BNC ) 1 Vp-p 75 Ω S-Video IN              Y : 1.0 Vp-p, 75 Ω C : 0.3 Vp-p, 75 Ω Audio ( Phono ) 0.67Vrms, 10 KΩ AV3 IN                        Video ( Phono ) 1 Vp-p 75 Ω Audio ( Phono ) 0.67 Vrms, 10 KΩ Monitor OUT                 Video ( BNC ) 1 Vp-p 75 Ω Audio ( Phono ) 0.67 Vrms, ( 100 % modulation ) 1 KΩ
<b>Accessories supplied :</b>	Remote controller ( TNQ8E0404 ) X 1 "R03" Battery X 2
<b>Dimensions (W x D x H) :</b>	792 x 583 x 1055 mm
<b>Weight :</b>	74.0 kg (NET)

**Note :**

Design and Specifications are subject to change without notice.  
Weight and dimensions shown are approximate.

**Customer's Record**

The serial number of this product may be found on its rear cover. You should note the number of this unit in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number

**TX-3370ZR**

Serial Number

**Matsushita Electric Industrial Co., Ltd.**  
Central P.O. Box 288, Osaka 530 - 91, Japan

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